METHOD AND DEVICE FOR CANCELING NOISE

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Abstract of **JP 2003008521 (A)**

PROBLEM TO BE SOLVED: To provide a method and device for canceling noise for power line carrier communication or the like that adaptively selects a band to an actual noise to cancel noise and enhances the S/N to enable high-speed communication. SOLUTION: A zero point insert section 27-2 inserts a zero point signal to prescribed positions of signals sent from a transmission signal generating section 27-1 and the resulting signal is sent to a transmission line 27-3.; A receiver side uses an interleave section 2-13 to extract a noise component from the zero point signal, uses a noise distribution identification section 2-11 to identify a noise distribution from a silence signal period of a received signal, a noise prediction section 2-15 extracts a greater frequency band of the noise components having frequencies in pairs generated by the insertion of the zero point signal according to a comparison result by a pair frequency estimate power comparison section 2-12 to predict noise. A subtractor section 2-16 eliminates the predicted noise from the received signal to cancel the noise.